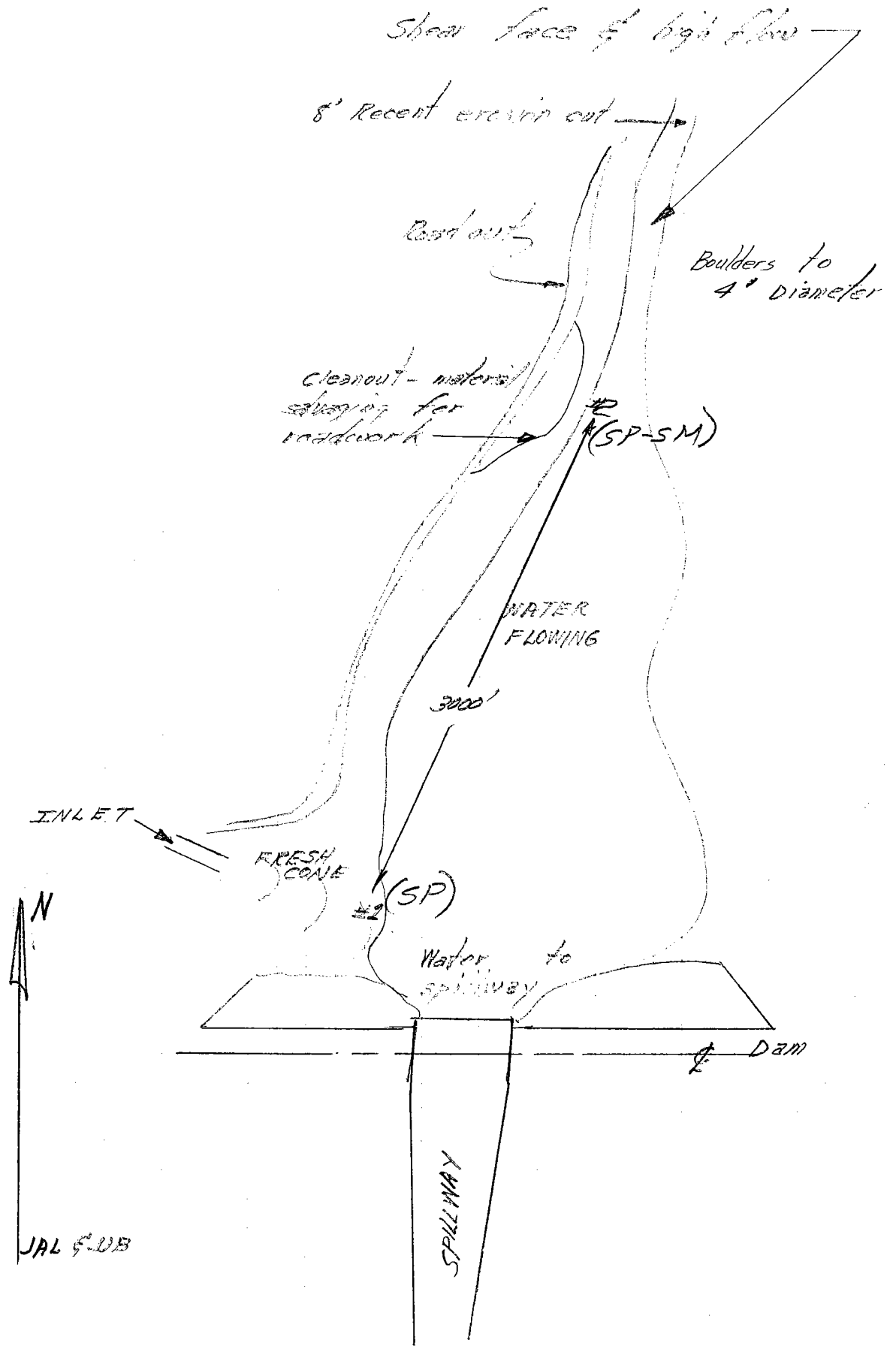


Santa Anita Debris Basin

2/24/69
From 2/20/69

(45)



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

SP (45)

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22897 Total Weight of Sample 0.65 lbs.
 Project Santa Anita _____ grams.
 Station _____ Moisture Content of Fines _____ %.
 Location _____ Date Tested 3/5/69 Plotted By _____
 Boring No. 1 Sample No. _____ Remarks NP
 Sampled By _____ Lab Tested By AR-FK Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	0.04		7.0	7.0		
3/8"	9.52	0.01		1.8	8.8		
No. 4	4.76	0.01	0.6	1.8	10.6	89.5	
Pan	0	0.59		xxxxx			
Total Fractions		0.65		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		.51		89.5			
Total Oven-Dry		.57		100.00			

Moisture Determination of Fines:
 Cup No. 52
 Dry Weight 160.9 grams
 Moisture 15.1 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 80.9 grams.
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 97.1 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	3.3	3.4	14.0		
16	1.19	13.0	13.4	27.4		
30	0.59	29.8	30.7	58.1		
50	.297	28.7	29.6	87.7		
100	.149	8.5	8.8	96.5		
200	.074	1.0	1.0	97.9	2.1	
Pan	0	0.2				
Total Fractions		84.5				
Total Dry Weight After Wet Sieving		205.0 120.2	87.3			
Sieve Loss-Gain		+103				

Calculated by AR Date 3/6/69
 Checked by SAT Date 3/6/69

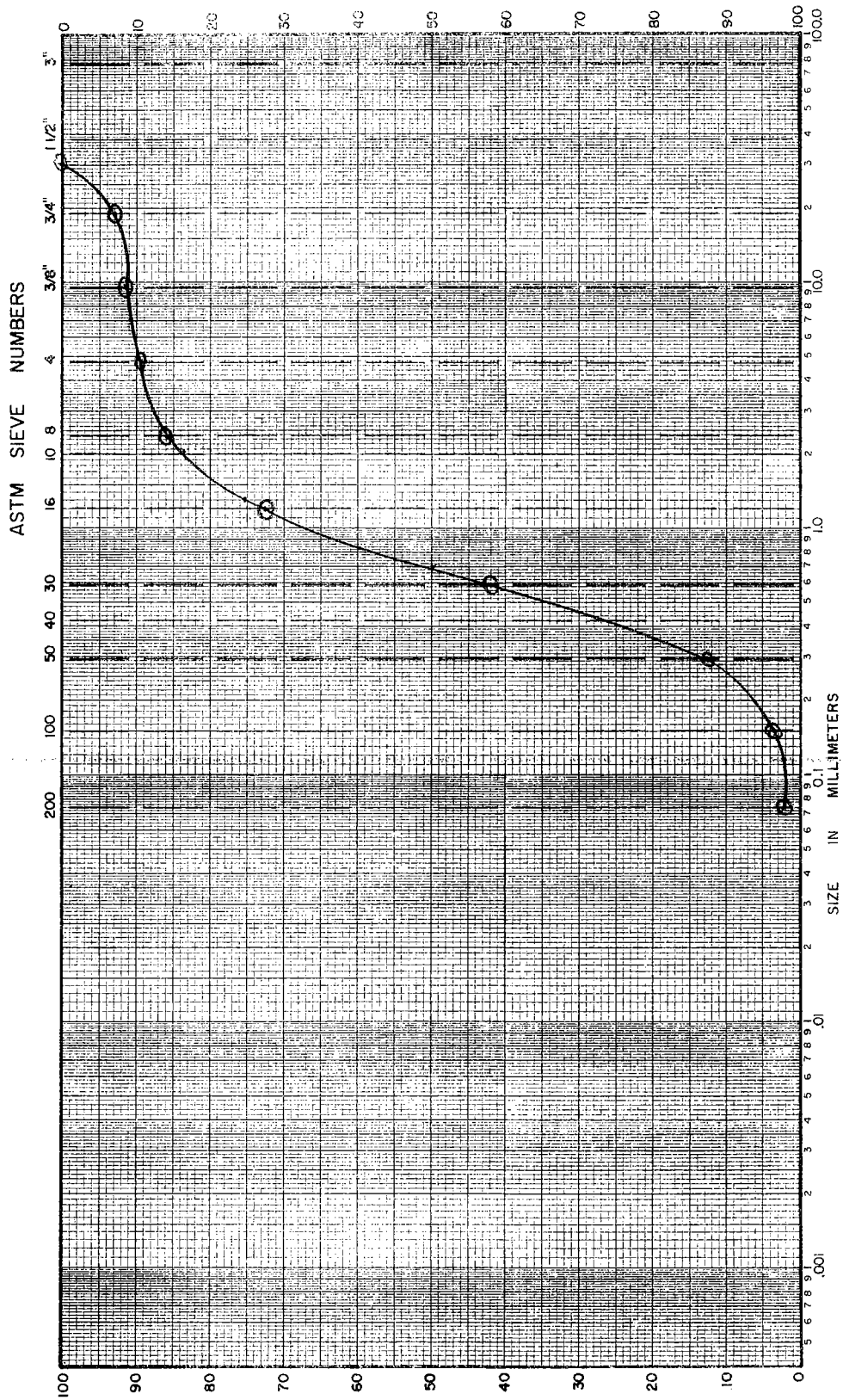
Note: Cross out sieve numbers not used.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22897
 JOB _____
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT.
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D_{10} .26 mm
 D_{30} .43 mm D_{60} .84 mm
 $C_u = D_{60}/D_{10}$ 3.2 PLOTTED BY R
 $C_c = (D_{30})^2 / (D_{10} \times D_{60})$ 1.5 CHECKED BY MF
 GROUP SYMBOL _____ DATE 3/6/62
 NOTE: D_x = PARTICLE DIA. AT X % PASSING



SILT OR CLAY		SAND		FINE		GRAVEL	
2	3	4	5	6	7	8	9
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3	0.6	1.18	2.5	5.0	10.0
200	100	50	30	20	15	10	7.5
No. 200	No. 100	No. 50	No. 30	No. 20	No. 15	No. 10	No. 7.5
0.075	0.15	0.3					

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division

(45)
~~SM-SW~~
-SP

SIEVE ANALYSIS WORK SHEET

LAB SERIAL NO. 22898
Project SANTA ANITA D.B.
Station _____
Location _____
Boring No. _____ Sample No. 1
Sampled By JJB Lab Tested By EK-NR

Total Weight of Sample _____ lbs.
grams.
Moisture Content of Fines _____ %
Date Tested 3-3 Plotted By _____
Remarks _____
Intended Use _____

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	0.10		10.8	10.8		
3/8"	9.52	0.10		10.8	21.6		
No. 4	4.76	0.13	133	14.0	35.6	64.5	
Pan	0	0.65		xxxxx			
Total Fractions		0.98		xxxxx			
Sieve Loss-Gain		-					
Calc. Oven-Dry Fines		0.60		64.5			
Total Oven-Dry		0.93		100.00			

Moisture Determination of Fines:
Cup No. 22
Dry Weight 166.1 grams
Moisture 8.6 %

FINES (Minus No. 4)

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 92.1 grams.
WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 142.8 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	9.0	6.3	41.9		
16	1.19	18.2	12.7	54.6		
30	0.59	25.7	17.8 18.0	72.4	79.6	
50	.297	18.0	12.6	85.0	85.2	
100	.149	8.8	6.2	91.2	91.4	
200	.074	4.2	2.9	94.8	99.0	
Pan	0	-	-		5.2	
Total Fractions		83.9				
Total Dry Weight After Wet Sieving		84.6	59.2			
Sieve Loss-Gain		+0.7				

Calculated by EK Date 3-5-69
Checked by SHF Date 3/6/69

Note: Cross out sieve numbers not used.

200.8
120.2

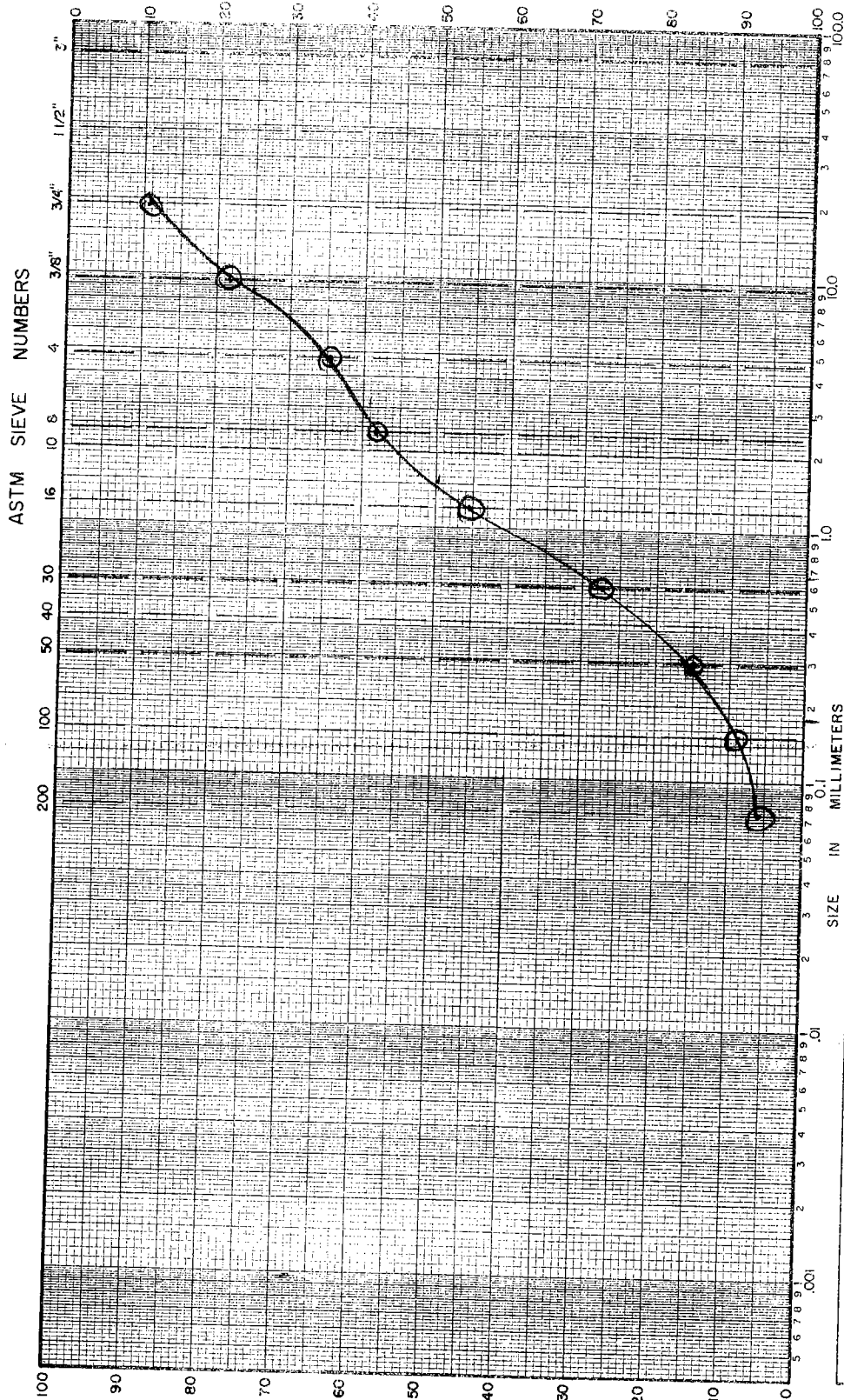
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Soils and Materials Engineering Division
MECHANICAL ANALYSIS

LAB. SERIAL NO. 22898
 JOB _____
 BORING NO. _____ SAMPLE NO. _____
 STATION _____ DEPTH _____ FT. _____
 LOCATION _____
 SAMPLED BY _____ DATE _____
 FIELD CLASSIFICATION _____ BY _____
 PLAS. IND. _____ LIQ. LIM. _____
 REMARKS _____

CLASSIFICATION DATA

PERCENT (+) NO. 200 _____ PERCENT (+) NO. 4 _____
 % (+) NO. 4 / % (+) NO. 200 _____ D₁₀ 0.18 mm
 D₃₀ 0.66 mm D₆₀ 2.19 mm
 C_u = D₆₀/D₁₀ 1.6 PLOTTED BY _____
 C_c = (D₃₀)² / (D₁₀ x D₆₀) 1.84 CHECKED BY SHF
 GROUP SYMBOL _____ DATE 3/1/60
 NOTE: D_x = PARTICLE DIA. AT X% PASSING

436
1522



SILT OR CLAY SAND MEDIUM SAND COARSE FINE COARSE FINE GRAVEL COARSE

45